AMENDMENTS TO THE CLAIMS

1. (Currently amended) A method for retransmitting data between two sides

including a reception side and a transmission side in a mobile communication system including

one or more mobile stations and one or more radio networks, the method comprising the steps of:

a) at the reception side, storing data received from the transmission side in a first storage

unit;

b) as a result of an error-checking procedure, if the data is erroneous, requesting the

transmission side to retransmit the data;

c) at the transmission side, transmitting to the reception side first information related to

retransmission and then retransmitting the requested data, wherein the first information includes

information about when the transmission side will retransmit the requested data to the reception

side;

d) at a combining unit at the reception side, combining the retransmitted data with the

data stored in the first storage unit;

e) if the combined data is not erroneous, clearing the data and the retransmitted data from

the first storage unit and transmitting the combined data to a first upper layer included in the

reception side; and

f) in response to an ACK signal from the reception side representing that normal data has

been received, clearing at the transmission side the retransmitted data from a second storage unit.

2. (Original) The method as recited in claim 1, wherein the first storage unit is

included in a first physical layer included in the reception side.

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3. (Original) The method as recited in claim 1, wherein the second storage unit

is included in a second upper layer included in the transmission side.

4. (Original) The method as recited in claim 1, wherein the step b) includes the

steps of:

b1) performing the error-checking procedure by a cyclic redundancy check unit;

b2) if the data is erroneous, failing to transmit the data stored in the first storage unit to

the first upper layer included in the reception side; and

b3) by the first upper layer, requesting the transmission side to retransmit the data by

transmitting a NACK signal representing that desired data has not been received.

5. (Original) The method as recited in claim 4, wherein the NACK signal is

generated at the first upper layer when the desired data has not been received during a

predetermined time.

6. (Original) The method as recited in claim 4, wherein the NACK signal is

generated at the first upper layer when other data, expected to be received after the desired data

is received at the upper layer before the desired data.

7. (Currently amended) The method as recited in claim 1, wherein the first

information includes information about when the transmission side will retransmit the requested

data to the reception side and information about a way of processing the requested data at the

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transmission side before retransmitting the requested data to the reception side, the way including how to establish a data coding rate and a puncturing.

8. (Original) The method as recited in claim 1, wherein the transmission side

transmits the first information to the reception side before retransmitting the requested data.

9. (Original) The method as recited in claim 1, wherein the first information is

transmitted as a first upper layer message.

10. (Original) The method as recited in claim 7, wherein the way of processing

the requested data at the transmission side before retransmitting the requested data to the

reception side is different from the way of processing the data at the transmission side before

transmitting the data to the reception side.

11. (Original) The method as recited in claim 1, wherein the step b) further

includes the steps of:

g) if the data is not erroneous, clearing the data from the first storage unit and

transmitting the data to the first upper layer; and

h) generating the ACK signal in the first upper layer in response to reception of the data

by the first upper layer.

12. (Original) The method as recited in claim 1, wherein the step e) further

includes the step of:

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if the combined data is erroneous, returning to the step b).

13. (Currently amended) A method for retransmitting data between two sides

including a reception side and a transmission side in a mobile communication system including

one or more mobile stations and one or more radio networks, the method comprising the steps of:

a) at the reception side, storing data received from the transmission side in a first storage

unit;

b) as a result of an error-checking procedure, if the data is erroneous, requesting the

transmission side to retransmit the data;

c) at the transmission side, transmitting to the reception side information about when the

transmission side will retransmit the requested data to the reception side, and then retransmitting

to the reception side the requested data and a transport format combination indicator (TFCI);

d) by a combination unit included in the reception side, combining the retransmitted data

with the data stored in the first storage unit;

e) if the combined data are not erroneous, clearing the data and the retransmitted data

from the first storage unit and transmitting the combined data to a first upper layer included in

the reception side; and

f) in response to an ACK signal from the reception side representing that normal data has

been received, clearing the retransmitted data from a second storage unit at the transmission side.

14. (Previously presented) The method as recited in claim 13, wherein it is

determined if the reception side is receiving the retransmitted data by interpreting the transport

format combination indicator (TFCI).

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(Previously presented) The method as recited in claim 14, wherein if it is 15.

determined that the reception side is receiving the retransmitted data by interpreting the transport

format combination indicator (TFCI), the step d) is performed.

16. (Currently amended) Computer-readable record media storing instructions for

performing a method for retransmitting data between two sides including a reception side and a

transmission side in a mobile communication system including one or more mobile stations and

one or more radio networks, the method comprising the steps of:

a) at the reception side, storing data received from the transmission side in a first storage

unit;

b) as a result of an error-checking procedure, if the data is erroneous, requesting the

transmission side to retransmit the data;

c) at the transmission side, transmitting to the reception side a first information related to

retransmission and then retransmitting the requested data, wherein the first information includes

information about when the transmission side will retransmit the requested data to the reception

side;

d) at a combining unit at the reception side, combining the retransmitted data with the

data stored in the first storage unit;

e) if the combined data is not erroneous, clearing the data and the retransmitted data from

the first storage unit and transmitting the combined data to a first upper layer included in the

reception side; and

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f) in response to an ACK signal from the reception side representing that normal data has

been received, clearing at the transmission side the retransmitted data from a second storage unit.

17. (Currently amended) Computer-readable record media storing instructions for

performing a method for retransmitting data between two sides including a reception side and a

transmission side in a mobile communication system including one or more mobile stations and

one or more radio networks, the method comprising the steps of:

a) at the reception side, storing data received from the transmission side in a first storage

unit;

b) as a result of an error-checking procedure, if the data is erroneous, requesting the

transmission side to retransmit the data;

c) at the transmission side, transmitting to the reception side information about when the

transmission side will retransmit the requested data to the reception side, and then retransmitting

to the reception side the requested data and a transport format combination indicator (TFCI);

d) by a combination unit included in the reception side, combining the retransmitted data

with the data stored in the first storage unit;

e) if the combined data are not erroneous, clearing the data and the retransmitted data

from the first storage unit and transmitting the combined data to a first upper layer included in

the reception side; and

f) in response to an ACK signal from the reception side representing that normal data has

been received, clearing the retransmitted data from a second storage unit at the transmission side.

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18. (Currently amended) The method of claim 1, wherein transmitting the combined data to a first upper layer included in the reception side comprises transmitting the combined data to a data reception unit of the first upper layer for transmission, in turn, of the combined data to an asynchronous core network.

19. (Currently amended) The method of claim 1, wherein transmitting the combined data to a first upper layer included in the reception side comprises transmitting the combined data to a data reception unit of the first upper layer for transmission, in turn, of the combined data to an application part that communicates with the first upper layer.

20. (Previously presented) The method of claim 14, wherein interpreting the TFCI occurs at a physical layer without support from any other layers to interpret the TFCI.